

FEDERAL & STATE AIR QUALITY STANDARDS

Pollutant	Averaging Period	Federal (NAAQS)	State (MAAQs)	NAAQS Standard Type
Carbon Monoxide (CO)	1-Hour	35 ppm ^a	23 ppm ^b	Primary
	8-Hour	9 ppm ^a	9 ppm ^b	Primary
Fluoride in Forage	Monthly	NA	50 µg/g ^c	NA
	Grazing Season	NA	35 µg/g ^c	NA
Hydrogen Sulfide (H ₂ S)	1-Hour	NA	0.05 ppm ^b	NA
Lead (Pb)	Quarterly	1.5 µg/m ^{3 c.o}	1.5 µg/m ^{3 c}	NA
	Rolling 3-Month	0.15 µg/m ^{3 c}	NA	Primary & Secondary
Nitrogen Dioxide (NO ₂)	1-Hour	100 ppb ^d	0.30 ppm ^b	Primary
	Annual	53 ppb ^e	0.05 ppm ^f	Primary & Secondary
Ozone (O ₃)	1-Hour	0.12 ppm ^g	0.10 ppm ^b	Primary & Secondary
	8-Hour	0.075 ppm ^h (2008 std)	NA	Primary & Secondary
	8-Hour	0.08 ppm ⁱ (1997 std)	NA	Primary & Secondary
Particulate Matter ≤ 10 µm (PM ₁₀)	24-Hour	150 µg/m ^{3 j}	150 µg/m ^{3 j}	Primary & Secondary
	Annual	NA	50 µg/m ^{3 k}	Primary & Secondary
Particulate Matter ≤ 2.5 µm (PM _{2.5})	24-Hour	35 µg/m ^{3 l}	NA	Primary & Secondary
	Annual	15.0 µg/m ^{3 m}	NA	Primary & Secondary
Settleable PM	30-Day	NA	10 g/m ^{2 c}	NA
Sulfur Dioxide (SO ₂)	1-Hour	75 ppb ⁿ	0.50 ppm ^p	Primary
	3-Hour	0.5 ppm ^a	NA	Secondary
	24-Hour	0.14 ppm ^{a, q}	0.10 ppm ^b	Primary
	Annual	0.030 ppm ^{e, q}	0.02 ppm ^f	Primary
Visibility	Annual	NA	3 x 10 ⁻⁵ /m ^f	NA

^a Federal violation when exceeded more than once per calendar year.

^b State violation when exceeded more than once over any 12-consecutive months.

^c Not to be exceeded (ever) for the averaging time period as described in either state or federal regulation. Pb is a 3-year assessment period for attainment.

^d Federal violation when 3-year average of the 98th percentile of the daily maximum 1-hr average at each monitoring site exceeds the standard.

^e Federal violation when the annual arithmetic mean concentration for a calendar year exceeds the standard.

^f State violation when the arithmetic average over any four consecutive quarters exceeds the standard.

^g Applies only to NA areas designated before the 8-hour standard was approved in July, 1997. MT has none.

^h Federal violation when 3-year average of the annual 4th-highest daily max. 8-hour concentration exceeds standard. (effective May 27, 2008)

ⁱ To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm. The 1997 standard—and the implementation rules for that standard—will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard. EPA is in the process of reconsidering these standards (set in March 2008).

^j State and federal violation when more than one expected exceedance per calendar year, averaged over 3-years.

^k State violation when the 3-year average of the arithmetic means over a calendar year at each monitoring site exceed the standard.

^l Federal violation when 3-year average of the 98th percentile 24-hour concentrations at each monitoring site exceed the standard.

^m Federal violation when 3-year average of the annual mean at each monitoring site exceeds the standard.

ⁿ Federal violation when 3-year average of the 99th percentile of the daily maximum 1-hr average at each monitoring site exceeds the standard. Promulgated June 2, 2010. Expected effective date mid-August, 2010.

^o The 1978 Pb NAAQS will remain effective until one year after designations are effective for the October 15, 2008, revised Pb NAAQS (0.15 µg/m³), except in existing Pb nonattainment areas (East Helena, MT). In East Helena, EPA will retain the 1978 Pb NAAQS until EPA approves attainment and/or maintenance demonstrations for the revised Pb NAAQS.

^p State violation when exceeded more than eighteen times in any 12 consecutive months.

^q The 1971 SO₂ NAAQS will remain effective until one year after designations are effective for the June 2, 2010, revised SO₂ NAAQS (75 ppb), except in existing SO₂ nonattainment areas (Laurel and East Helena, MT). In Laurel and East Helena, EPA will retain the 1971 SO₂ NAAQS until EPA approves attainment and/or maintenance demonstrations for the revised SO₂ NAAQS.